<110> MERISTEM THERAPEUTICS

<120> CLEAN SYNTHETIC VECTORS, PLASMIDS, TRANSGENIC PLANTS
      AND PLANT PARTS CONTAINING SAID VECTORS,  AND THEIR
      METHODS OF PRODUCTION

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<170> PatentIn Ver. 2.1

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      and P382 enabling an increase in the replication
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9

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22

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23

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&lt;223&gt; Origin of replication ori RK2

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&lt;223&gt; Origin of replication ori ColEI

&lt;220&gt;
&lt;221&gt; gene
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    phosphotransferase and kanamycin resistance

24

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<223> TrfA locus from pRK2 coding for two proteins, P285
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<220>
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<220>
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<223> NPT III gene coding for neomycin
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<220>
<221> misc_feature
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<223> TrfA locus from RK2 coding for two proteins, P285
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      replication


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41

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<220>
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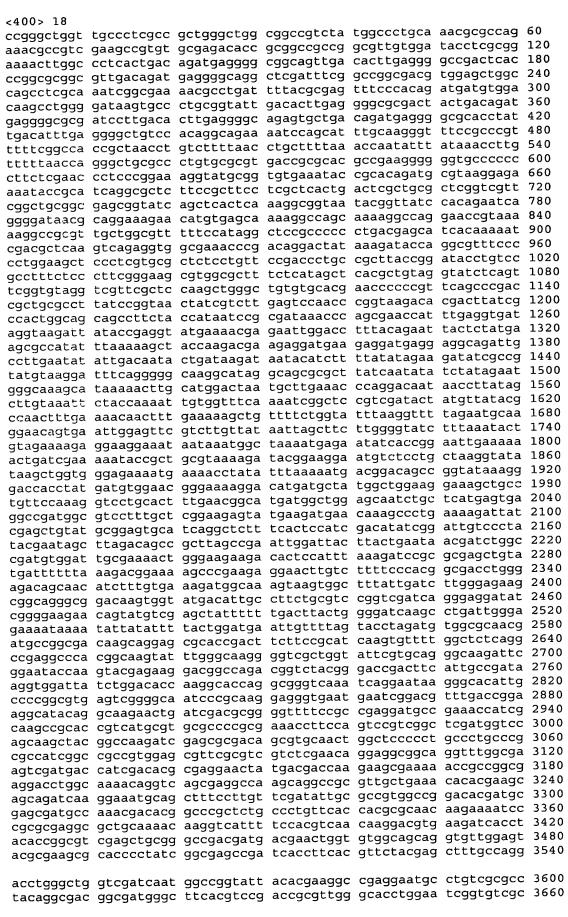ttttcggcca ccgctaacct gtcttttaac ctgcttttaa accaatattt ataaaccttg 540
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44

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<211> 28
<212> DNA

64

<213> Artificial Sequence

<220>
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<210> 24
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Oligo
      Desoxynucloetide containing StuI restriction site

<400> 24
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<210> 25
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
      Sequence:Oligodesoxynucleotide containing StuI
      restriction site

<400> 25
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<210> 26
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
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      restriction site

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<210> 27
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
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<210> 28

<211> 30
<212> DNA
<213> Artificial Sequence

<220>
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Sequence:Oligodesoxynucleotide containing AvrII
restriction site

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<210> 29
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
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and AatII restriction sites

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<210> 30
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
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restriction site

<400> 30
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<210> 31
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
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Sequence:Oligodesoxynucleotide containing
restriction site SmaI

<400> 31
ctatcccccg ggggatatcc ataggcccga tctagtaaca tagatgac                        48


<210> 32
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
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Sequence:Oligodesoxynucleotide containing Bsp120I
restriction site

<400> 32

66

gcgcacttgg gcccata●cgacgaacga tcgttcaaac atttggc ●        47

<210> 33
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
      Sequence:Oligodesoxynucleotide containing Bsp120I
      restriction site

<400> 33
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<210> 34
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
      Sequence:Oligodesoxynucleotide downstream of a
      BstBI restriction site

<400> 34
ttcttgacga gttcttctga gcggg                                25

<210> 35
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
      Sequence:Oligodesoxynucleotide containing
      restriction sites KpnI, HindIII, EcoRI and XhoI

<400> 35
cggtaccgaa gctttgaatt cactcgagca gattgtcgtt tcccgcc         47

<210> 36
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
      Sequence:Oligodesoxynucleotide containing
      restriction sites AvrII and AgeI

<400> 36
tatcctagga accggtaaac cctgtggttg gcatgc                    36

<210> 37
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial

67

Sequence:Oli█████soxynucleotide used for synthes█
of fragment ███-beg. Pnos"

<400> 37
atatgagact ctaattggat accgagggg                          29


<210> 38
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
     Sequence:Oligodesoxynucleotide containing XhoI,
     EcoRI, HindIII et KpnI restriction sites

<400> 38
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<210> 39
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
     Sequence:Oligodesoxynucleotide for synthesis of
     part of npt II and BspEI site

<400> 39
ggaatcgaaa tctcgtgatg gcagg                              25


<210> 40
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
     Sequence:Oligodesoxynucleotide used for synthesis
     of part of Pnos and npt II

<400> 40
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<210> 41
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
     Sequence:Oligodesoxynucleotide used in the
     synthesis of XbaI, SalI, PacI, BamHI, MluI, HpaI
     et FseI restriction sites of an MCS

<400> 41
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<210> 42
<211> 52

68

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<212> DNA
<213> Artificial Sequence

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     et FseI restriction sites of an MCS

<400> 42
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<210> 43
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
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     restriction site

<400> 43
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<210> 44
<211> 30
<212> DNA
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<220>
<223> Description of Artificial
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     restriction site

<400> 44
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<210> 45
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
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     restriction site

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<210> 46
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<212> DNA
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<220>
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     restriction site

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aggcattggt ttcgaag

<210> 47
<211> 21
<212> DNA
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<220>
<223> Description of Artificial
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<210> 48
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
     Sequence:Oligodesoxynucleotide containing NcoI and
     SmaI restriction sites

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<210> 49
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
     Sequence:Oligodesoxynucleotide situated upstream
     of SnaBI restriction site

<400> 49
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<210> 50
<211> 9688
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<220>
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<220>
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     expression cassette of pMRT1206 by the nptII
     expression cassette of pBIN19

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70

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71

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`<220>`
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`<220>`
`<223>` Description of Artificial Sequence:pMRT1337

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80

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<223> Description of Artificial Sequence:pMRT1341

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87

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88

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